



Water-Data Report 2008

01368820 DOUBLE KILL AT WAWAYANDA, NJ

HUDSON RIVER BASIN

LOCATION.--Lat 41°11'13", long 74°25'12" referenced to North American Datum of 1983, Vernon Township, Sussex County, NJ, Hydrologic Unit 02020007, 0.3 mi east of Wawayanda, 0.4 mi downstream from Wawayanda Lake, 3.5 mi east of Vernon, and 4.6 mi upstream from Wawayanda Creek.

DRAINAGE AREA.--6.46 mi².

SURFACE-WATER RECORDS

PERIOD OF RECORD.--Miscellaneous measurements, water years 1998 to current year.

GAGE.--Staff gage.

**DISCHARGE MEASUREMENTS
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008**

Date	Discharge, in ft ³ /s
Nov 8, 2007	2.60
Feb 5, 2008	20.3
Jun 17, 2008	1.59
Aug 26, 2008	0.06

01368820 DOUBLE KILL AT WAWAYANDA, NJ—Continued**WATER-QUALITY RECORDS**

PERIOD OF RECORD.--Water years 1998 to current year.

REMARKS.--Cooperative Network Site Descriptor: Background and Low Level Mercury Assessment special study site, NJ Department of Environmental Protection Watershed Management Area 2. The samples on Dec 14 and Mar 25 were for the Low-Level Mercury Assessment special study.

COOPERATION.--Physical measurements and samples for laboratory analysis on Dec 14 and Mar 25 were provided by personnel of the NJ Department of Environmental Protection. Determinations of dissolved ammonia, dissolved orthophosphate, and suspended residue were performed by the NJ Department of Health and Senior Services, Environmental and Chemical Laboratory.

**WATER-QUALITY DATA
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008**

Part 1 of 6

[QC, quality control sample. Remark codes: <, less than; E, estimated.]

Date	Time	Sample medium and type	Turbidity	UV	UV	Barometric pressure, mm Hg (00025)	Dissolved oxygen, mg/L (00300)	Dissolved oxygen, percent of saturation (00301)	
			Instantaneous discharge, ft³/s (00061)	white light, det ang 90+/-30° corrcrd NTRU (63676)	absorbance, 254 nm, wat flt (50624) /cm units				
Nov 08...	1100	Surface water, regular	2.6	.7	.118	.086	735	11.8	94
Dec 14...	0945	QC - Artificial, field blank	--	--	--	--	--	--	--
Dec 14...	1030	Surface water, regular	--	.6	--	--	735	12.2	86
Feb 05...	1100	QC - Artificial, field blank	--	--	--	--	--	--	--
Feb 05...	1210	Surface water, regular	20	.9	.110	.081	754	13.6	101
Mar 25...	1045	QC - Artificial, field blank	--	--	--	--	--	--	--
Mar 25...	1115	Surface water, regular	--	.5	--	--	738	11.8	92
Jun 17...	1145	Surface water, regular	1.6	2.0	.140	.104	723	7.7	94
Aug 26...	1022	QC - Artificial, field blank	--	--	--	--	--	--	--
Aug 26...	1040	Surface water, regular	.06	2.2	.128	.095	732	5.1	53

01368820 DOUBLE KILL AT WAWAYANDA, NJ—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008

Part 2 of 6

[QC, quality control sample. Remark codes: <, less than; E, estimated.]

Date	Specif-										ANC,		
	pH, water, unfltrd field, std units (00400)	conduc- tance, wat unf μS/cm (00095)	Temper- ature, air, deg C (00020)	Temper- ature, water, deg C (00010)	Hard- ness, water, mg/L as CaCO ₃ (00900)	Calcium water, filtrd, mg/L (00915)	Magnes- ium, water, filtrd, mg/L (00925)	Potas- sium, water, filtrd, mg/L (00935)	Sodium, water, filtrd, mg/L (00930)	end pt, lab, mg/L as CaCO ₃ (90410)	Chlor- ide, water, filtrd, mg/L (00940)	Fluor- ide, water, filtrd, mg/L (00950)	Silica, water, filtrd, mg/L as SiO ₂ (00955)
Nov 08...	7.2	238	4.0	5.8	59	14.6	5.43	.79	21.9	47	36.5	E.07	3.7
Dec 14...	--	--	--	--	--	--	--	--	--	--	--	--	--
14...	7.3	252	6.0	1.2	--	--	--	--	--	--	--	--	--
Feb 05...	--	--	--	--	--	--	--	--	--	--	--	--	--
05...	7.5	249	6.0	3.0	62	16.0	5.36	.89	23.4	47	38.8	<.12	4.1
Mar 25...	--	--	--	--	--	--	--	--	--	--	--	--	--
25...	7.5	294	6.0	4.8	--	--	--	--	--	--	--	--	--
Jun 17...	7.3	261	19.0	22.2	61	15.5	5.40	.56	24.2	47	43.5	E.07	1.4
Aug 26...	--	--	--	--	--	--	--	--	--	--	--	--	--
26...	7.1	278	19.0	17.3	68	17.6	5.88	.69	22.5	61	41.3	E.07	5.7

01368820 DOUBLE KILL AT WAWAYANDA, NJ—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008

Part 3 of 6

[QC, quality control sample. Remark codes: <, less than; E, estimated.]

Date	Sulfate water, fltrd, mg/L (00945)	Residue water, fltrd, sum of consti- tuents mg/L (70301)	Residue on evap. 180degC wat flt mg/L (70300)	Residue total non- filter- able, mg/L (00530)	Ammonia		Nitrate + nitrite water, fltrd, mg/L as N (00623)	Ammonia + nitrite water, fltrd, mg/L as N (00608)	Partic- ulate nitro- gen, susp, water, fltrd, mg/L as N (00631)	Total nitro- gen, water, fltrd, mg/L as N (49570)	Total nitro- gen, water, unfltrd mg/L (00602)	Ortho- phos- phate, water, fltrd, mg/L as P (00600)	Phos- phorus, water, fltrd, mg/L as P (00666)	Phos- phorus, water, unfltrd mg/L as P (00665)
Nov 08...	9.24	E120	126	1	.28	<.010	<.04	.04	--	--	E.006	E.005	.011	
Dec 14...	--	--	--	--	--	--	--	--	--	--	--	--	--	
14...	--	--	--	--	--	--	--	--	--	--	--	--	--	
Feb 05...	--	--	--	--	--	--	--	--	--	--	--	--	--	
05...	9.67	E126	135	<1	.21	.012	E.03	.04	E.24	E.28	<.010	E.004	.012	
Mar 25...	--	--	--	--	--	--	--	--	--	--	--	--	--	
25...	--	--	--	--	--	--	--	--	--	--	--	--	--	
Jun 17...	7.24	E127	143	4	.28	.016	.05	E.04	.32	E.36	E.008	.013	.019	
Aug 26...	--	--	--	--	--	--	--	--	--	--	--	--	--	
26...	6.04	E137	152	4	.29	.052	.15	E.03	.44	E.47	.011	.016	.021	

01368820 DOUBLE KILL AT WAWAYANDA, NJ—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008

Part 4 of 6

[QC, quality control sample. Remark codes: <, less than; E, estimated.]

Date	Total carbon, suspd sedimnt total, mg/L (00694)	Inor- ganic carbon, suspd sedimnt total, mg/L (00688)	Organic carbon, suspd sedimnt total, mg/L (00689)	Organic water, filtrd, mg/L (00681)	Arsenic water, filtrd, μg/L (01000)	Arsenic water, unfiltrd, μg/L (01002)	Barium, unfiltrd recover -able, μg/L (01007)	Beryll- ium, water, unfiltrd recover -able, μg/L (01012)	Boron, water, unfiltrd recover -able, μg/L (01020)	Boron, water, unfiltrd recover -able, μg/L (01022)	Cadmium water, unfiltrd recover -able, μg/L (01027)	Chrom- ium, water, unfiltrd recover -able, μg/L (01034)	Copper, water, filtrd, μg/L (01040)
Nov 08...	.3	<.04	.3	4.0	--	--	--	--	13	--	--	--	--
Dec 14...	--	--	--	--	--	--	--	--	--	--	--	--	--
14...	--	--	--	--	--	--	--	--	--	--	--	--	--
Feb 05...	--	--	--	--	<.06	--	--	--	--	--	--	--	<1.0
05...	.3	<.04	.3	3.8	.20	E.32	8.4	<.04	13	8	<.01	<.40	--
Mar 25...	--	--	--	--	--	--	--	--	--	--	--	--	--
25...	--	--	--	--	--	--	--	--	--	--	--	--	--
Jun 17...	.6	<.04	.6	4.6	--	--	--	--	12	--	--	--	--
Aug 26...	--	--	--	--	<.06	--	--	--	--	--	--	--	<1.0
26...	.3	<.04	.3	4.0	.41	E.48	12.6	<.04	14	13	<.01	<.40	--

01368820 DOUBLE KILL AT WAWAYANDA, NJ—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008

Part 5 of 6

[QC, quality control sample. Remark codes: <, less than; E, estimated.]

Date	Mangan-											
	Copper, water, unfltrd recover -able, µg/L (01042)	Iron, water, unfltrd recover -able, µg/L (01045)	Lead, water, unfltrd recover -able, µg/L (01049)	Lead, water, unfltrd recover -able, µg/L (01051)	ese, water, unfltrd recover -able, µg/L (01055)	Mercury, water, unfltrd recover -able, µg/L (01055)	Mercury, water, unfltrd recover -able, µg/L (71890)	Mercury, water, unfltrd recover -able, µg/L (50286)	Mercury, water, unfltrd recover -able, µg/L (71900)	Nickel, water, unfltrd recover -able, µg/L (01065)	Nickel, water, unfltrd recover -able, µg/L (01067)	Silver, water, unfltrd recover -able, µg/L (01147)
Nov 08...	--	--	--	--	--	--	--	--	--	--	--	--
Dec 14...	--	--	--	--	--	--	.06	--	--	--	--	--
14...	--	--	--	--	--	--	.56	--	--	--	--	--
Feb 05...	--	--	<.08	--	--	<.010	--	--	<.20	--	--	<1.8
05...	<1.2	34	--	E.06	11.9	--	--	E.009	--	.22	E.05	<.02
Mar 25...	--	--	--	--	--	--	.06	--	--	--	--	--
25...	--	--	--	--	--	--	.84	--	--	--	--	--
Jun 17...	--	--	--	--	--	--	--	--	--	--	--	--
Aug 26...	--	--	<.08	--	--	<.010	--	--	<.20	--	--	<1.8
26...	<1.2	262	--	.16	220	--	--	<.010	--	.35	E.06	<.02

01368820 DOUBLE KILL AT WAWAYANDA, NJ—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008

Part 6 of 6

[QC, quality control sample. Remark codes: <, less than;
 E, estimated.]

Date	Zinc, water, unfltrd recover -able, μg/L (01092)	Methyl- mercury water, unfltrd low level ng/L (50284)
Nov		
08...	--	--
Dec		
14...	--	<.04
14...	--	<.04
Feb		
05...	--	--
05...	<2.0	--
Mar		
25...	--	<.04
25...	--	<.04
Jun		
17...	--	--
Aug		
26...	--	--
26...	<2.0	--